

PERMINOV, P.

Alekshev, D. V., Perminov, P., Ostroumov, V. C. A. Vol. 32, No. 11 -
Nov. 30, 1938 5752-5

"The action of hydrogen on carbon steels and special steels." D. V. Alekshev,
P. Perminov, and V. Ostroumov. Destruktivnaya hidrogenatsiya. Reprint I,
304-2(1934); Chem. Zentr. 1934, II, 2291; cf. C. A. 28, 4020².

For C steel with a C content up to 0.35% the limit for safe work with H₂ is
250°; up to this temp. the change in mech. properties is insignificant. A
steel with 0.52% C, 3.5% Cr and 15.0% Ni was very resistant toward H₂; similar
behavior was shown by a special steel E N 5 with 0.4-0.5% C, 2-3.5% Si, less
than 0.5% Mn, less than 0.03% P, less than 0.015% S, 11-14% Cr, 0.4-0.6% Ni
and less than 0.15% W. A steel, E N 6, with 0.15-0.25% C, less than 0.4% Si
less than 0.4% Mn, less than 0.03% P, less than 0.015% S, 12-22% Cr, 0-2% Ni
and less than 0.15% W showed very slight resistance but was, however, super-
ior to the C steel. The action of the H₂ is explained as follows: Beginning
at a definite temp. and a definite pressure the H₂ diffuses into the steel,
reacts with measurable velocity with the cementite according to the equation
 $Fe_3C + 2H_2 \rightarrow 3Fe + CH_4$, and converts the pearlite structure into the relative
weakly bound ferrite grains. This change is accompanied by a decrease
in v_0^2 so that fine fissures appear in the steel, chiefly along the
boundary of the ferrite grains.

The action of hydrogen on carbon steels and special steels. D. V. Akhiezer, P. Petrinov and V. Ostromosov. *Dostizheniya Hydrogenatsii po Toplit I*, 304 p (1934). *Dostizheniya Hydrogenatsii po Toplit II*, 208 p; cf. C. A. 28, 4029 - For C steel with a C content up to 0.35% the limit for safe work with H₂ is 250°; up to this temp. the change in mech properties is insignificant. A steel with 0.52% C, 3.5% Cr and 15.0% W was very resistant toward H₂; similar behavior was shown by a special steel E. N. 5 with 0.1-0.5% C, 2-3.5% Si, less than 0.3% Mn, less than 0.01% P, less than 0.015% S, 11-14% Cr, 0.4-0.6% Ni and less than 0.15% W. A steel, E. N. 6, with 0.15-0.25% C, less than 0.4% Si, less than 0.4% Mn, less than 0.01% P, less than 0.015% S, 18-22% Cr, 6.8% Ni and less than 0.15% W showed very slight resistance but was, however, superior to the C steel. The action of the H₂ is explained as follows: Beginning at a definite temp. and a definite pressure the H₂ diffuses into the steel, reacts with measurable velocity with the cementite according to the equation Fe₃C + 2H₂ → 3Fe + CH₄, and converts the pearlite structure into the relatively weakly bound ferrite grains. This change is accompanied by a decrease in vol. so that fine fissures appear in the steel, chiefly along the boundary of the ferrite grains. M. G. Moore

PERMINOV, F. A., CRLCV, A. A., FRUMKIN, A. N. Acad.

Solubility

Effect of pressure of the solubility of molecular hydrogen in the α -phase of the system palladium-hydrogen. Dokl. Akad. Nauk SSSR 84 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1957, Vol. 2

SOV/137-50-7-196

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 7, p 59 (USSR)

AUTHORS: Popov, I.A., Perminov, P.P. and Bogorodskiy, A.L.

TITLE: Intercrystalline Carbon Segregation Over the Height and Cross Section of a 36-Ton Chromo-Nickel-Molybdenum Structural Steel Ingot

PERIODICAL: Sb. stately. Ural'skiy zav. tyazh. mashinostro. im. S. Ordzhonikidze, 1959, Nr. 3, pp 150 - 155

ABSTRACT: Intercrystalline carbon segregation over the height and cross section of a 36-ton "34KhN2M" steel ingot was studied. Determination of intercrystalline carbon segregation was carried out by measuring the strength of chilled ingots on individual sections. It was assumed that martensite strength was determined by the C content and characterizes its concentration. Specimens of 15 · 15 · 100 mm were chilled in water at 95°C. Strength was determined on a "PMT-3" device under a 100 - 200-g load, and on a conventional Vickers device under a 5-kg load. Strength was measured along a straight line drawn from the surface to the center of the ingot, every 0.1 mm, on the "PMT-3" device and every 0.4 - 0.6 mm on the Vickers installation. It was stated that the greatest strength fluctuations

Card 1/2 ✓

30V/115V - 60Hz

Intercrystalline Carbon Segregation Over the End-Part and Cross Section of a 30-ton Chromo-Nickel-Molybdenum Structural Steel Ingot

and consequently the strongest C segregation was observed in the central portion of the ingot. In the peripheral portion of the ingot in the zone of columnar crystals C segregation was considerably weaker. It was proved that homogenizing tempering in salt bath at 1,100°C for 4 hours reduced noticeably intercrystalline C segregation in the boundaries of individual dendrites; differences in the strength changes were observed when proceeding from one dendrite to another.

Ye.K.

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Card 2/2

SOKOLOV, K.N.; PERMINOV, P.P.; KOTEL'NIKOVA, R.I.

Investigating the hardening of 20KhN3A steel carried out directly
after cementation. Trudy Ural. politekh. inst. no.68:158-168 '58.
(MIRA 12:?)

(Steel alloys--Hardening)
(Cementation (Metallurgy))

POPOV, A.A.; SHKLYAR, R.Sh.; PERMINOV, P.P.

Structure and properties of fan-shaped crystals formed during
the solidification of aluminum alloys. Izv. vys. ucheb. zav.;
tsvet. met. 2 no.2:111-114 '59. (MIRA 12:7)

1.Ural'skiy politekhnicheskiy institut, Kafedra metallovedeniya i
termoobrabotki.
(Metal crystals) (Aluminum alloys--Metallurgy)

POPOV, A.A.; PERMINOV, P.P.; BOGORODSKIY, A.L.

Intercrystalline segregation of carbon in height and cross section
of a 36-ton ingot of chromium-nickel-molybdenum structural steel.
Sbor.st.UZTM no.3:150-154 '58. (MIRA 11:12)
(Steel ingots) (Steel, Structural--Metallography)

3/123/59/000/006/014/025
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 6, p. 125,
20975

AUTHORS: Sokolov, K. N., Perminov, P. P., Kotel'nikova, R. I.

TITLE: Investigation of the Immediate Hardening of Steel 20XH3A (20KhNZA)
After Cementation 18

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1958, sb. 68, pp. 158-168

TEXT: The possibility was investigated to reduce the content of residual austenite in the 20KhNZA steel hardened immediately from the cementation temperature. If the cemented steel contains 1% C, the quantity of austenite attains 80% at immediate hardening, the hardness decreases down to R_C 30; if it contains 0.96% C, the quantity of austenite attains 50%. A variation in the cooling rate (water, oil, air) does not affect the content of austenite. An intermediate soaking during cooling (10 minutes at 600°C) also does not lead to a decrease in the quantity of austenite. Step quenching in a medium with the 200°C temperature with soaking during 20 minutes increases the percentage of austenite. The rise of

Card 1/2

SOV 137-59-3-7030

Translation from Referativnyy zhurnal Metallurgiya, 1959, Nr 3, p 500 USSR

AUTHORS: Sokolov, K. N., Perminov, P. P., Kotelnikova, R. I.

TITLE: An Investigation of Quenching of Steel 20KhN3A Directly After Carburizing (Issledovaniye neposredstvennoy zakalki stali 20KhN3A posle tsementatsii)

PERIODICAL: Tr. Ural'skogo politekhn in-ta, 1958, Nr 68, pp 158-168

ABSTRACT: The following seven methods of post-carburizing (C) treatment of specimens made of steel 20KhN3A were investigated: 1) Standard oil quenching (Q) from 800°C 1-a) Standard Q in conjunction with low-temperature treatment; after Q, the specimens were maintained at a temperature of -195° for a period of one hour 2) Direct oil Q immediately after C. 2-a) Direct oil Q followed by a one-hour period of low-temperature soaking at -195°. 3) Direct oil Q in conjunction with preliminary cooling to 780° for a period of one hour 4) Direct step-wise Q at a temperature of 200° for a period of 30 minutes followed by cooling in oil. 5) Direct isothermal transformation at the first stage (at 600°; soaking time: three hours) with subsequent oil Q from 800°. 7) Preliminary high tempering. C and cooling in air

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SOV/137-59-3-7030

An Investigation of Quenching of Steel 20KhN3A Directly After Carburizing

is followed by tempering at 650° (two hours) which, in turn, is again followed by cooling in air. Finally, oil Q from a temperature of 800°. Final tempering for all types of treatment involves immersion in oil at a temperature of 200° for a period of one hour. An analysis of mechanical properties obtained by the procedures indicated demonstrates that the method of direct Q immediately after C can not be recommended for components made of steel 20KhN3A. The optimal conditions involve cooling of the carburized components in air followed by standard oil Q from 780-800° and tempering at 200°. Bibliography 13 references

A B

Card 2/2

PERMINOV, P. P.; POPOV, A. A.; and BOGORODSKIY, A. L.;

"Intra-crystalline Segregation of Carbon Along the Height and Cross Section of a 1-ton Chromium-nickel-molybdenum Structural Steel Ingots," Preizvodstvo stali (Steel Production) Moscow, Mashgiz, 1957. 154-p.

PURPOSE: This book published on the 25th anniversary of the Ural mashzavod (Ural Heavy Machine-building Plant imeni S. Ordzhonikidze) is intended for engineers, technicians and scientific workers concerned with the production of steel.

Diffusion of hydrogen through iron at high pressures.
 P. S. Parfenov and B. P. Vyulnov. *Korrosiya* 6, No. 3, 220-23 (1953); *Khim. Referat. Zhur.* 2, No. 3, 370 (1953).—Diffusion of H through Armco Fe depends on the size of the grains, the temp., (200°-300°) and the pressure (3000-1700 atm.). As a rule the velocity of diffusion is proportional to the square root of the pressure. Diffusion takes place through the grains of ferrite as well as along the surfaces of the grains. The velocity of diffusion is greater than through the intercrys. substance of the Armco Fe is the size of the grains the velocity of diffusion decreases, but with an increase of the pressure the effect of the size of the grains is decreased.

W. R. Head

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110010-1"

PERMINOV, P. S.

Effect of Pressure on the Solubility of Molecular Hydrogen in the β -Phase of the System Palladium-Hydrogen. P. S. Perminov, A. A. Ordov, and A. N. Franklin (Doklady Akad. Nauk SSSR, 1052, 34, (4), 740-752). [In Russian]. A Pd specimen was placed in a bomb of accurately known vol. (10 c.c.) which could be filled with H; an equal vol. of Ag was placed in a similar bomb of identical vol. The solubility of H in Pd ([H]/[Pd]) was then measured by comparing the amounts of free H in each system when under the same pressure (P), allowance being made for the change in vol. of the Pd on dissociating the H. The results are tabulated: using Pd wire 0.1 mm. in dia., as P increased from 1 to 700 atm, $[H]/[Pd]$, in g.-atom H/g.-atom Pd, increased from 0.700 to 0.776 at 15° C.; and from 0.760 to 0.774 at 88° C. Using Pd black prepared by reduction of purified $(\text{NH}_4)_2\text{PdCl}_6$ with H at 180°-200° C., data obtained at temp. (T) of 185°-373° K. over the pressure range 0.0148-1700 atm, satisfied the relation: $\ln P = a + b[H]/[Pd]$. The values of the const. a and b agree well with those for specimens of Pd black obtained by reduction of $(\text{NH}_4)_2\text{PdCl}_6$ with hydrazine hydrochloride, but not with those for Pd wire. The const. can also be derived electrochem., if φ is the electrode potential $[\text{H}]/[\text{Pd}] = e^{-\gamma\phi - \mu + (RT_2/\lambda F)\ln P}$, so that $b = -RT_2/\lambda F$. Values of a and b calculated from the electrochem. data of Vodorova (Dissertation, Moscow Univ., 1948) agree well with the values obtained by solubility measurements at 273° and 300° K. but at 341° and 323° K. the agreement is less satisfactory. At low temp. the electrochem. method is probably the more accurate.—L. V. R. T.

5(4)

AUTHOR: Perminov, P. S.

S07/2c-121--12

TITLE: The Influence of Pressure on the Solubility of Molecular Hydrogen in Niobium and Tantalum (Vliyaniye davleniya na rastvorimost' molekulyarnogo vodoroda v niobii i tantale)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 6, pp 1041-1042 (USSR)

ABSTRACT: In a previous paper (Ref 1) on the influence of pressure on the solubility of molecular hydrogen in the β -phase of the system palladium-hydrogen, the existence of a linear relation between the quantity of the dissolved hydrogen and the logarithm of pressure (up to the concentration of 0,32 gram-atoms H per 1 gram-atom Pd) was proved. In this paper it was assumed that the logarithmic law, probably applies also to other solutions of gases in metals in the regions of high occupations of the lattice. In order to verify this assumption, the author investigated the systems Ta-H and Nb-H. This investigation was limited to the measurement of the solubility of hydrogen only at the high temperatures of 620 - 690°. Chemically pure powdered metallic niobium and a 0,1 mm thick

Card 1/3

SOV/20-121-6-25/45

The Influence of Pressure on the Solubility of Molecular Hydrogen in Niobium
and Tantalum

sheet of tantalum were investigated. Both of these metals were previously activated by hydrogen at the temperature of 700°. The solubility of hydrogen was determined according to a method which was also used for the investigation of the system Pd-H. 3 gas cylinders with a volume of 15 cm³ (each) were used for these measurements. Any experimental point was determined 3 - 4 times during the increase and decrease of the pressure. The experimental data are given in a table and by a diagram. In both of the investigated systems there is a relatively sharp increase of solubility if the pressure increases above atmospheric pressure. This probably corresponds to the formation of new phases which contain more hydrogen. The solubility then slowly increases according to the logarithmic law. For the system, Nb-H, the logarithmic dependence is observed in the interval from 0,53 to 0,70 gram-atoms per 1 gram-atom Nb. For the system Ta-H, the logarithmic law is valid for the wider interval of from 0,2 to 0,72 gram-atoms H per 1 gram-atom Ta. The absolute values of solubility at atmospheric pressure in the system Ta-H correspond to the well-known data obtained by A. Sieverts.

Card 2/3

SCV/2c-171-6-174

The Influence of Pressure on the Solubility of Molecular Hydrogen in Nickel and Tantalum

(Sivers) and H. Brünnung (Brünnung). Some other papers concerning this subject are then mentioned. Technical causes did not permit the expansion of those investigations to higher pressures and lower temperatures. According to the author's opinion, the experimental results discussed in this paper confirm the initially mentioned assumption that the logarithmic law may be applied in a wide interval of pressures and that this law is characteristic of the metal-gas systems in the regions of high occupations of the lattice. There are 1 figure, 1 table, and 5 references, 1 of which is Soviet.

PRESENTED: April 14, 1958, by A. N. Frumkin, Academician

SUBMITTED: February 5, 1958

Card 3/3

PERMINOV, S.I., polkovnik; YEMEL'YANOV, V.T., polkovnik, red.;
CHAPAYEV, R.I., tekhn. red.

[Military reconnaissance scouts] Voiskovye razvedchiki. Mo-
skva, Voenizdat, 1962. 59 p. (MIRA 15:10)
(Military reconnaissance)

YEVSEYEV, K.P., nauchnyy red.; PERMINOV, S.V., red.; MAKRUSHIN, V.A., tekhn, red.
PERMINOV, S.V., red.; MAKRUSHIN, V.A., tekhn.red.

[Geology and minerals of the Urals and Turgay] Geologiya i poleznye
iskopaemye Urala i Turgaia. Leningrad, 1960. 192 p. (Leningrad
Vsesciuzyi geologicheskii institut materialy, no.39) (MIRA 14:7)
(Ural Mountain region--Minerals) (Turgay region--Minerals)

PORSH, Nikolay Nikolayevich; POZNER, V.M., redaktor; PERMINOV, S.V.,
redaktor; GENNAD'YEVA, I.M., tekhnicheskiy redaktor.

[Permian deposits; Ufa series and the Kazanian stage] Permskie
otlozheniya; ufimskaya svita i kazanskii iarus. Leningrad, Gos.
nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955.
156 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'-
skii geologo-razvedochnyi institut. Trudy no. 92). (MLRA 9:5)
(Geology, Stratigraphic)

KHOKHLOV, Prokofiy Stepanovich; KUCHAPIN, Aleksandr Vasil'evich, redaktor;
PERMINOV, S.V., vedushchiy redaktor; GENNAD'YEV, S.V., tekhnicheskiy
redaktor

[Tectonics and history of the formation of the Kerensk-Chembar and
Surak-Mokshinsk dislocation zone] Tektonika i istorija formirovaniia
zony Kerensko-Chembarskikh i Sursko-Mokshinskikh dislokatsii.
Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi
lit-ry, Leningradskoe otd-nie, 1955. 116 p. (MIRA 10:1)
(Russian Platform--Geology, Structural)

ABLULKABIROVA, M.A.; ALEKSANDROVA, M.I.; AFONICHEV, N.A.; BANDARETOV,
S.M.; BESPALOV, V.F.; BOGDANOV, A.A.; BOLOVIKOV, L.I.; BOSSUK,
B.I.; BORUKAYEV, R.A.; BUVAL'IN, A.K.; BYKOVA, M.S.; DVORTSOVA,
K.I.; DEMBO, T.M.; ZHUKOV, M.A.; ZVONTSOV, V.S.; IVSHIN, N.K.;
KOPYATKEVICH, R.A.; KOSTENKO, N.N.; KUMPAN, A.S.; KULYUKOV,
K.V.; LAVINOV, V.V.; LYAFICHEV, G.F.; MAURKEVICH, M.V.;
MIKHAYLOV, A.Yo.; MIKHAYLOV, N.P.; MYCHNIK, M.B.; NIDLENKO, Ye.N.;
NIKITIN, I.F.; NIKIFOROVA, K.V.; NIKOLAYEV, N.I.; PUPYSHEV, N.A.;
RASKATOV, G.I.; REINGARTEN, P.A.; SAVICHENKA, A.Ye.; SALIN, B.A.;
SEVRYUGIN, N.A.; SEMENOV, A.I.; CHERNYAKHOVSKIY, A.G.; CHUYKOVA,
V.G.; SHLYGIN, Ye.D.; SHUL'GA, V.M.; EL'GER, E.S.; YAGOVKIN, V.I.;
NALIVKIN, D.V., akademik, red.; PERMINOV, S.V., red.; MAKUSHIN,
V.A., tokhn.red.

[Geological structure of central and southern Kazakhstan]
Geologicheskoe stroenie TSentral'nogo i Uzhnogo Kazakhstana.
Leningrad, Otdel nauchno-tekn.informatsii, 1961. 496 p.
(Leningrad. Vsesoiuznyi geologicheskii institut. Materialy, no.41)
(MIRA 14:7)

(Kazakhstan--Geology)

PAVLOV, Mikhail Stepanovich; ARTEM'YEV, A.P., nauchnyy red.; PERMINOV, S.V.,
red.; TSAL, P.K., tekhn. red.

[Organization of labor and establishment of production standards
for machinists and assemblers in the manufacture of instruments]
Organizatsiya truda i tekhnicheskoe normirovaniye slesarno-sboroch-
nykh rabot v priborostroenii. Leningrad, Gos. sciuznoe izd-vo
industrostr. promyshl., 1958. 112 p. (MIRA 11:9)
(Instrument industry--Production standards)

PERMINOV, S.V.

USPENSKIY, Vladimir Alekseyevich; VENGER, Vasiliy Valerianovich, redaktor;
PERMINOV, S.V. vedushchiy redaktor; GENNAD'YEVA, I.M., tekhnicheskiy
redaktor

[Balance of carbon in the biosphere in connection with the distribution
of carbon in the earth's crust] Balans ugleroda v biosfere v
sviazi s voprosom o raspredelenii ugleroda v zemnoi kore. Leningrad,
Gos. nauchno-tekhn. izd-vo nefti i gorno-toplivnoi lit-ry, Leningr.
otd-nie, 1956. 100 p. (MLRA 10:4)
(Carbon) (Geochemistry)

PERMINOV S.V.

OLEKHEV, Nikolay Mikhaylovich; MISHIN, Boris Vasil'yevich; KHRENOV, L.K.,
redaktor; PERMINOV, S.E., vedushchiy redaktor; YASHCHURZHINSKAYA, A.B.,
tekhnicheskiy redaktor.

[Nonmetal reservoirs for storing petroleum and petroleum products]
Nemetallicheskie rezervuary dlia khraneniia nefti i nefteproduktov.
Leningrad, Gos.naucho-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry,
Leningr.otd-nie, 1957. 383 p. (MLRA 10:11)
(Petroleum--Storage) (Petroleum products--Storage)

KOLTYPIN, Sergey Nikolayevich; AYZENSHADT, G.Ye.-A., red.; PERMINOV, S.V.,
vedushchiy red.; GEHMAD'Yeva, I.M., tekhn. red.

[Upper Cretaceous sediments in the Ural-Mamba salt dome area and
the southeastern Ural and Mugodzhar regions] Verkhnemolovye otlo-
zheniya Uralo-Mambanskoi solianokupol'noi oblasti, iugo-zapadnogo
Priural'ya, i Primugodzhar'i. Leningrad, Gos. nauchn. tekhn. izd-vo
neft. i gorno-toplivnoy lit-ry, 1957. 217 p. (Leningrad. Vsesoiuz-
nyi neftianoi nauchno-issledovatel'skii geologo-ravvedochnyi in-
stitut. Trudy, no.109). (MIRA 11:6)
(Ural Mountain region—Geology)

PERMINOV, S.V.

POLEANOV, A.A., akademik; PERMINOV, S.V., redaktor izdatel'stva; KRUGLIKOV, N.A., tekhnicheskiy redaktor.

[Geology of the Hogland-Jotnian Baltic shield; stratigraphy, tectonics, kinetics, and magmatism] Geologiya Khoglandia-Iotnia Baltijskogo shchita; stratigrafija, tektonika, kinematika i magmatizm. Moskva, Izd-vo Akademii nauk SSSR, 1956. 122 p. (Akademiia nauk SSSR. Laboratoriya geologii dokembriia. Trudy, no.6) (MLRA 10:2)
(Baltic shield--Geology, Stratigraphic)

NALIVKIN, D.V.; PUSTOVALOV, L.V., otvetstvennyy redaktor: PERMINOV, S.V.,
redaktor izdatel'stva; ZENDEL', M.Ye. tekhnicheskiy redaktor

[Facies science; geographical conditions of the formation of deposits]
Uchenie o faktsiiakh; geograficheskie usloviia obrazovaniia osadkov.
Moskva, izd-vo Akademii nauk SSSR. No.1. 1955. 534 p. No.2. 1956. 393 p.
(MLRA 9:7)

1. Chlen-korrespondent AN SSSR (for Pustovalov)
(Geology) (Sedimentation and deposition)

120-100-86
GLEMEV, Nikolay Mikhaylovich; MISHIN, Boris Vasil'yevich; KHRENOV, L.K.,
redaktor; PERMINOV, S.V., vedushchiy redaktor; YASHCHURZHINSKAYA,
A.B., tekhnicheskiy redaktor

[Nonmetal reservoirs for the storage of petroleum and petroleum
products.] Nemetallicheskie rezervuary dlia khraneniia nefti i
nefteproduktov. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-
toplivnoi lit-ry, Leningr. otd-nie, 1957. 383 p. (MIRA 10:11)

(Petroleum--Storage)
(Petroleum products--Storage) (Tanks)

PERMINOV, T. A. and DEMCHENKO, M. Kh.

"The clinic* in horses experimentally infected with the virus
of Aujeszky's disease."

SO: Vet. 27 (11) 1950, p. 12 -15

*"The clinical aspects of experimental infection of horses with the virus of
Aujeszky's disease.")
Ibid. in ~~N-182%~~, 8 Jun 1951 .

PERMINOV, T. A., Veterinarian

"Illness of colts with epizootic lymphangitis."

SO: Vet 28 (9), 1951, p. 61.

PERMINOV, T. A.; ZARODINA, A. G.

T. A. Perminov and A. G. Zarodina — Concerning the Elimination of Protein Opalescence in Mallein.

Trudy Nauchno-kontrol'nogo Instituta Veterinarnykh Preparatov, Moscow, Vol. 3, 1952,
pp 89-91

B. A. Ivanov

In a Bibliography of Infectious Diseases from Soviet Periodical, March 1953 -
Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, 1953, No. 3, pp 80-89
(but including only titles not otherwise available)

-W-27086, 25 July 1953

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PERMINOV, T. A.

DROBYAZGO, D.P.; PERMINOV, T.A.; SHEIN, A.N.; BELOVA, K.D.; GOLIKOVA, A.I.

Pea-hydrolysate culture medium in the production of tuberculin.
Trudy Gos.nauch.-kont.inst.vet.prep. 4:98-100 '53. (MLB 7:10)

1. Kurskaya biofabrika.
(Tuberculin) (Bacteriology--Culture and culture media)

PERMINOV, T.A.; DEMCHENKO, M.Kh.

Production of a serum against Anjesky's disease. Trudy Gos.nauch.-kont.inst.vet.prep. 4:161-167 '53. (MIRA 7:10)

1. Kurskaya biofabrika.
(Prevdorabies--Preventive inoculation) (Vaccines)

PERMINOV, T.A.; AFANAS'YEVA, L.G.

Industrial production of fowl pest vaccine. Trudy Gos.nauch.-kont.
inst.vet.prav. 4:168-177 '53. (MLRA 7:10)

1. Kurskaya biofabrika.
(Poultry—Diseases—Preventive inoculation) (Vaccines)

PERMINOV, T. A.

USSR/ Medicine - Veterinary, Newcastle's
Disease

Sept 53

"Experimental Production of a Vaccine Strain Effective Against Pseudo-plague of
Chickens (Newcastle's disease.)"

Dok V-s Ak S-kh Nauk, No 9, Vol 18, pp45-48

The authors discuss work done by foreign and USSR investigations on the production of a virus strain of Newcastle's disease suitable for use as a vaccine. By inoculating chickens with a weakly virulent atypical strain of the virus, they produced immunity in the chickens. The chickens suffered a mild form of the disease, and imparted it to control birds living in the same coop, thereby causing immunity in the latter as well. When outbreaks occur it is considered more economical to infect healthy birds with the mild form, than to incur the losses from the natural form. Presented by the Vet Sect, All-Union Order of Lenin Acad Agri im V. I. Lenin.

276T12

PERMINOV, T. A.
USSR/Medicine - Veterinary

FD-1284

Card 1/1 : Pub 137-4/20

Author : Perminov, T. A.

Title : Biologicals Plant in Kursk

Periodical : Veterinariya,³¹ No. 23-25, Aug 1954

Abstract : Kursk biologicals plant has been manufacturing 6 different types of vaccines against hoof-and-mouth disease. More recently this plant has been producing a new vaccine, developed at the All-Union Institute of Experimental Veterinary Science (VIEV). This plant has been not only cost conscious, but also showed awareness of its obligation to fulfill and overfulfill its production quotas. The plant resumed production of biologicals, used for prevention and treatment of diseases of agricultural animals, in 1949 after 8 years of enforced idleness. One illustration.

Institution :

Submitted :

L 1260-66

ACCESSION NR: AP5024392

(UR/0286/85/000/015/0073/0073Q)

615,372.002.2

B

AUTHOR: Arkhipov, V. V.; Filonov, Yu. A.; Nechayeva, L. A.; Khrushchev, V. G.; Perminov, T. A.; Shevyrev, N. S.; Zolozov, I. S.; Belyayev, A. S.; Nosdrachev, A. I.; Yevglevskiy, A. A.

TITLE: A method for manufacturing tuberculin. Class 30, No. 173381

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 15, 1965, 73

TOPIC TAGS: tuberculosis, immunology, allergen

ABSTRACT: This Author's Certificate introduces a method for manufacturing tuberculin. The method consists of growing a tubercular culture on a nutrient medium, removal of the bacterial matter and filtration. An active and specific allergen is produced and labor-consuming operations are reduced by exposing the culture to Co⁶⁰ γ -radiation.

ASSOCIATION: none

SUBMITTED: 11JUN64

NO NET Sov: 000

ENCL: 00

SUB CODE: LS

OTHER: 000

Card 1/1

S/123/00/02/17/1
A. M/A-1

Translation from: Referativnyy zhurnal "Mashinostroyenie", No. 11-12, 1958
50380

AUTHORS: Oreshkin, V., Perminov, V.

TITLE: Shell Molding

PERIODICAL: Za tekhn. progress, byul. Novosib. sormarkhoza i otdel proekt.,
Nos. 11-12, pp. 44-4

TEXT: The authors give a brief description of the technological process of shell molding and of the technological equipment developed in Novosibirsk. From 1955 to 1958 shell molding was introduced in Novosibirsk for manufacturing component items of gray cast iron, 35L (35L) grade steel, 4K (4K)-1200, 04C (CTsS)5-5-5 bronze and Al 2 (Al2) aluminum alloy. There are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 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690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1310, 1311, 1312, 1

PERMINOV, V.A.; MERZLYAKOV, P.P.

Mechanized cleaning of glass. Suggested by V.A.Perminov, P.P.
Merzlyakov. Rats. i izobr. predl.v stroi. no.12:74-75 '59.
(MIRA 13:5)

1. Po materialam Uralmashzavoda Sverdlovskogo sovnarkhoza.
Sverdlovsk.
(Windows--Cleaning)

BORISOVSKIY, Ye.S.; GIRSKIY, V.Yo.; FERMINOV, V.P.; KHAIDASH, A.Kh.

Steel pouring nozzles with a proportioning insert for the
continuous casting of steel. Ogneupory 31 no.1:31-36 '66.
(MIA 1961)

1. Vsesoyuznyy institut ogneuporov.

L 45299-66 EWT(m)/EWP(t)/ETI IJP(c) JD
ACC NR: AP6020959 SOURCE CODE: UR/0226/66/000/006/0041/0051

29
38
B

AUTHOR: Perminov, V. P.; Samsonov, G. V.

ORG: Institute of Physicochemical Fundamentals for Processing Mineral Raw Materials, AN SSSR (Institut fiziko-khimicheskikh osnov pererabotki mineral'nogo syr'ya AN SSSR); Institute for Problems in the Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN USSR)

TITLE: Metal chemistry of magnides

SOURCE: Poroshkovaya metallurgiya, no. 6, 1966, 41-51

TOPIC TAGS: magnesium, magnesium compound, binary magnesium compound, magnide

ABSTRACT: The metal and chemical dependences in binary magnides have been investigated in consideration of the effect of the formation of stable electronic configurations on the properties of chemical elements and compounds. All elements of the periodic system are divided into three families, each having a characteristic

Card 1/2

L 45299-65

ACC NR: AP6020959

1
interaction with magnesium. The nature of Mg interaction with a number of elements and the probability of magnide formation in binary systems has been assumed without a detailed study. Orig. art. has: 2 tables. [Based on authors' abstract]

[NT]

SUB CODE: 11/ SUBM DATE: 15Mar66/ ORIG REF: 013/ OTH REF: 009/

Card 2/2 1/2

PVRMINOV, V.¹.

Regularity patterns of the surface of artificial joints made of aluminum and its alloys and of titanium 51 mm² in area resulting from alloying with other metals. Inv. No. 311. W. US. P. no. 1,483,431.

1. Thin metal layers made of aluminum and titanium
AN-500R, November 1959.

S/200/62/000/012/004/005
D205/D307

AUTHOR: Perminov, V.P.

TITLE: Regularities in the changes of the mechanical properties of aluminum and of its alloys with 5% silicon and 5% of magnesium on alloying with other metals

PERIODICAL: Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya, no. 12, 1962, 83-91

TEXT: The present paper is a continuation of earlier studies in which the shear modulus, hardness, and the yield limit were found to vary periodically with the atomic number of the metal, and in which the mechanical properties of a number of metals alloyed with small amounts of admixtures were investigated. To extend the regularities to binary, ternary, and higher systems, the author studied the systems (a) Al + admixture, (b) Al + 5% Si + admixture, and (c) Al + 5% Mg + admixture. The admixtures tried were Li, Be, Na, Mg, Si, Ti, V, Mn, Fe, Co, Ni, Cu, Zn, Zr, Nb, Mo, Cd, In, Sn, Sb, La, Ce, Nd, Pb, Bi. The properties measured were limiting tensile

Card 1/2

Regularities in the changes ...

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D205/D307

strength, yield limit, relative elongation and Brinell hardness. The results are tabulated, shown graphically and discussed. From the several regularities discovered it is concluded that there is a direct relationship between the structure of the outer electronic shells of elements and the effects of these elements on the mechanical properties of the parent alloy. There are 3 figures and 1 table.

ASSOCIATION: Khimiko-metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk (Institute of Chemical Metallurgy, Siberian Branch of the AS USSR, Novosibirsk)

SUBMITTED: November 18, 1961

Card 2/2

KOSTIN, Yu.S.; PERMINOV, V.V.

Creating an artificial bottom in a highly developed bore
hole. Razved. i okh. nedr. 30 no.5:49-51 My '64.

(MIRA 17:10)

1. Kombinat Baleyzoloto.

PERMINOVA, G.N.

Effect of blue-green algae on the development of soil micro-
organisms. Mikrobiologiya 33 no.3:472-476 My-Je '64.
(MIRA 18:L.)

1. Kirovskiy sel'skokhozyaistvennyy institut. Submitted
November 23, 1963.

DROZDOV, S.N.; NOVITSKAYA, Yu.Ye.; KOMULAYNEN, A.A., SYCHEVA, E.F.;
BARSKAYA, T.A.; PERMINOVA, L.A.

Effect of frost on certain physiological processes of spring
wheat. Trudy Kar. fil. AN SSSR no.37.42-51 '64. (MIRA 18-3)

DROZDOV, S.N.; KOMULAYNEN, A.A.; PERMINOVA, L.A.

Frost resistance of spring wheat. Trudy Kar. fil. AN SSSR
no.37:52-58 '64.

Frost resistance of potatoes and the ways of increasing
it by means of mineral fertilizers. Ibid.:59-66

(MIRA 18:?)

NOVINSKAYA, Yu.Ye.; PERMINOVA, L.A.; VOLKOVA, R.I.

Effect of soil moisture and fertilizers on the yield and
certain physiological indices of sugar beets. Trudy Kar.
fil. AN SSSR no.37:87-97 '64. (MIRA 18:3)

S/0126/64/017/003/0413/0418

ACCESSION NR: AP4029000

AUTHOR: Permyakov, V. G.; Kaz'miruk, A. I.

TITLE: Formation of nitrogen carbon phases in high temperature nitration of medium carbon steels

SOURCE: Fizika metallov i metallovedeniye, vol. 17, no. 3, 1964, 413-418

TOPIC TAGS: carbon steel, nitration, 38 KhMYuA steel, 45 steel, Armco iron, phase composition, martensite conversion, tempering, carbon, nitrogen, iron

ABSTRACT: In this paper, the authors report the results of the study of phase composition and conversions during heating of Armco iron and the steels 45 and 38 KhMYuA tempered after nitration at 700-750°. The compositions of these substances are presented in a table. Literature data on the nitration of carbon steels and the phase conversions in the iron-nitrogen-carbon system are not published systematically, and many conclusions are drawn without adequate basis by analogy with the iron-carbon system. In order to explain certain properties of the formation of nitrogen carbon austenite in the nitration and character of phases formed during tempering, investigation was undertaken in the magnetic properties of samples of steel 45 with a different initial size of pieces of cementite tempered after nitration at 700° for

Card 1/2

ACCESSION NR: AP40290X0

different lengths of time. Thermal magnetic tempering curves and dilatometric curves of steel 45 are presented in graphs. In their conclusions, the authors claim that during high temperature nitration of carbon steel a layer of nitrogen carbon austenite, which undergoes a martensite conversion during quenching, is formed during a specific stage in the process. In the course of annealing of nitrogen carbon martensite and residual austenite, carbonitrides of the types FE3(CN) and FE4(N,C) as well as nitrogen carbon ferrite are formed. The γ' -phase of carbon steel is of a carbonitride character. During heating, the nitrogen carbon annealing structures undergo a conversion which results in the formation of austenite. This formation as well as the nitrogen carbon phase takes place within a temperature range of 600-700°. Orig. art. has: 1 table and 4 figures.

ASSOCIATION: Kiyevsk politekhnicheskiy institut (Kiev Polytechnical Institute)

SUBMITTED: 15Dec62

DATE ACQ: 27Apr64

ENCL: 00

SUB CODE: ML

NO REF Sov: 012

OTHER: 005

Cord 2/2

BELOTSKIY, A.V. (Kiyev); PERMYAKOV, V.G. (Kiyev); PETROSYAN, F.G. (Kiyev)

High-temperature X-ray examination of the intermediate
transformation of austenite in an iron-nickel-carbon alloy.
Izv. AN SSSR. Met. i gor. delo no.5:126-128 S-0 '63.

(MIRA 16:11)

NAME: BOOK EXTRUSION
207/3432
Machine-Toolhouse Obshchinoe machine-tooled tool production.
Soviet Union of Socialist Republics.

Methodical orientation machine-tooled tools production plant
station and automation in the machine-building industry. 1977
1979. 129 p. 12,000 copies printed.

M.: Dr. V. P. Sloboty, Doctor of Technical Sciences, Head of Department,
Editorial Board; P. P. Vlasov, Doctor of Technical Sciences, Head of Department;
Technical Editores, Yu. V. Tsvetkov, Head of Department;
P. N. Kostylev, Head of Department; V. V. Gerasimov, Head of Department;
Technical Editores, E. N. Smirnov, Head of Department;
Soviet Society, Committee of Technical Sciences, V. V.
K. E. Gerasimov, Committee of Technical Sciences, editor.

PURPOSE: This book is intended for production engineers and
in industrial plants.

CONTENTS: The material presented in this book is developed and
developed and tested in the Soviet industry. It is based on
the results of scientific research and practical experience
and their application in the field of production engineering.
The book is intended for the technical workers of
industrial enterprises, as well as for students, postgraduates
and specialists in the field of production engineering.
The book is intended for the production of metal products
and structures, as well as for the production of electrical
and electronic equipment, as well as for the production of
plastic products by the plastic industry.

PRINTER: This book is intended for production engineers and
in industrial plants.

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b. Reproduction and Automation of Assembly (Golosov, B. P., Candidate
of Technical Sciences and D. G. Chirkov, Engineer)
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2. Reproduction and Automation of Industrial Enterprises

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dubov, Candidate of Technical Sciences) 423
2. Mechanization and Automation of Control Devices for Geodetic
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Supplying up the mechanization and automation of new machines
SYNTHETIC POLYMER (Prokof'yev, D. E., Candidate of Technical
Sciences) 500

MANAGER: LOVINSKY or OGRANICHENIYE

ACCESSION NR: AT4016071

S/2698/63/000/000/0259/0264

AUTHOR: Perminov, V. P.; Gulyayev, B. B.

TITLE: Influence of various alloying elements on the mechanical properties of aluminum alloy castings

SOURCE: Soveshchaniye po teorii liteynykh protsessov. 8th, 1962. Mekhanicheskiye svoystva litogo metalla (Mechanical properties of cast metal). Trudy soveshchaniya. Moscow, Izd-vo AN SSSR, 1963, 259-264

TOPIC TAGS: aluminum alloy, aluminum casting, alloying element, magnesium, iron, cast aluminum, magnalium, aluminum silicon alloy

ABSTRACT: The author reports the results of tests on the effect of alloying elements on the ultimate strength, yield point, hardness, and relative elongation of aluminum alloys (Al + 5%Si and Al + 5% Mg). Analysis of the plotted curves shows that the effectiveness of the added element is related to its atomic number in a periodic way. Most of the alloying elements increased the yield point and decreased the relative elongation (see Figure 1 of the Enclosure), pure aluminum being affected more than its alloys, especially magnalium. Since a similar periodicity is seen in the solubility of these additives in solid Al, the authors conclude that the greatest effect on mechanical

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Cord

ACCESSION NR: AT4016071

properties will be produced by admixtures introducing the most asymmetry into the outer electron shells of the basic element. Hence, neither the inert gases nor elements in the same group of the periodic table as the basic element will have very much effect. Further studies showed that the effect of Si on the mechanical properties of Al-Si alloys does not depend on the type of heat treatment or presence of additives. Furthermore, the ultimate strength, yield point, hardness, and relative elongation in Al-Si-Mg and Al-Si-Fe alloys are essentially independent of the quantity of silicon in the alloy (within the limits of 5-12% Si). Orig. art. has: 3 formulas and 4 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 02

SUB CODE: MM

NO REF Sov: 007

OTHER: 000

2/4

Card

ACCESSION NR: AT4016071

ENCLOSURE:01

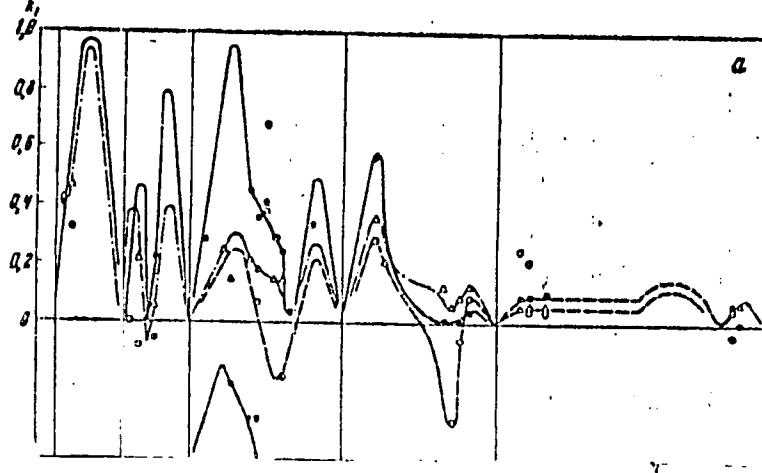


Fig. 1 - Effect of coefficients of the ultimate strength a and the elongation b.
1 - A00; 2 - A00 + 5% Si; 3 - A00 + 5% Mg

Card

3/4

ACCESSION NR: AT4016071

ENCLOSURE:02

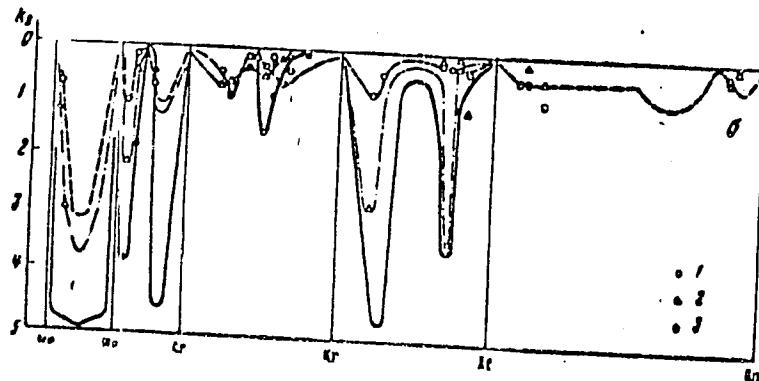


Fig. 1 (Continued) - Effect of coefficients of the ultimate strength a and the elongation b.
 1 - A00; 2 - A00 + 5% Si; 3 - A00 + 5% Mg

Card

4 / 4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240110010-1"

PERMINOVA, G.N.

Growth of some blue-green soil algae on nitrogen-deficient culture media. Bot. zhur. 49 no.9;1302-1304 S '64. (MFA 17.12)

2. Kirovskiy sel'skokhozyaystvennyy institut, g. Kirov (oblastnoy).

PERMITIN, I.Ye.

Age and growth rate of pike in Rybinsk Reservoir. Trudy Inst.
biol.vodoizbran. no.2:148-158 '59. (NIHA 13:5)
(Rybinsk Reservoir--Pike)

YAMNIKENKO, I.M. [IAMNYCHENKO, I.M.]; PERMYAKOV, V.V.; GOLYAK, L.M.
[Holiak, L.M.]

Main features of the geotectonic pattern of the area within
the Ukrainian and Moldavian S.S.R. during the upper Jurassic.
Dop.AN UMSR no.1:72-76 '60. (MIRA 13:6)

1. Institut geologicheskikh nauk AN USSR. Predstavлено
академиком AN USSR V.G. Bondarchukom [V.H. Bondarchukom].
(Ukraine—Geology, Stratigraphic)
(Moldavia—Geology, Stratigraphic)

PERMINOV, Ye.D.; BARANOVA, N.V.

Bleaching of viscose in a multistage unit. Bum. prom. 38
no.10:9-11 0 '63. (MIRA 16:11)

1. Nachal'nika otdel'nogo tsekha Kotlasskogo tsellyuloznobumazhnogo kombinata (for Perminov). 2. Nachal'nik laboratorii sul'fitno-tsellyulognogo zavoda Kotlasskogo kombinata (for Baranova).

TELYATNIKOV, N.N.; VARUNTSYAN, I.S., akademik, red.; GLUSHCHENKO, I.Ye., doktor biolog.nauk, red.; YENIKEYEV, Kh.K., kand.biolog.nauk, red.; OLSHANSKIY, M.A., akademik, red.; PEROV, S.V., kand.ekonom.nauk, red.; PREZENT, I.I., akademik, red.; KHALIPMAN, I.A., kand.biolog. nauk, red.; YAKOVLEV, P.H., akademik, red.; SAVZDARG, V.E., otv. za vypusk; BALLOD, A.I., tekhn.red.

[Mickurin's teaching in the people's service; collection of articles] Mickurinskoe uchenie na sluzhbe narodu; sbornik statei. Moskva, Gos.izd-vo sel'khoz.lit-ry. No.3. 1955. 238 p.
(MIRA 13:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.
(Plant breeding) (Stock and stockbreeding)

USSR / Virology. Viruses of Man and Animals. Plague Viruses
of Birds.

E-2

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 29130

Author : Syurin, V. N.; Afanas'yeva, L. G.; Perminov, T. A.
Inst : State Scientific-Control Inst. of Veterinary
Preparations

Title : On the Concentration of the Newcastle Virus in the
Tissues of an Experimentally Infected Fowl

Orig Pub : Tr. Gos. nauchno-kontrol'n. in-ta vet. preparatov,
1957, 7, 116-129

Abstract : The virulent (T; brain of a dead chicken) and adapted
strains (brain of a dead guinea pig) of the virus of
Newcastle's disease were studied. With intraallantoic
infection of chick embryos (CE) both strains caused
death of CE in 40 - 64 hours; in the cephalic brain
and liver were found large quantities of adapted virus

Card 1/2

USSR / Virology. Plant Viruses.

E-1

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 99070

general the quantity of viral particles increases progressively from the point of growth to the first and second leaf of the vegetative shoot. To the extent of differentiation of tissues, the quantity of bacillus-shaped particles in them, and their infectiousness, increases. The appearance of bacillus-shaped particles precedes the formation in the sick plant cell of significant quantities of granulous masses. 10 photo-electronoscopic illustrations. -- I. G. Atabekov

Card 2/2

1

PERMINOV, Yu.A.; MALYSHEV, G.V.; GLYZIN, V.I.

Low-frequency noise generator. Izv.vys.ucheb.zav.; prib.
4 no.6:3-9 '61. (MIRA 14:12)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.
Rekomendovana kafedroy apparatury avtomaticheskogo upravleniya.
(Oscillators, Electron-tube)

9(6)

S/146/59/002/06/004/016
D002/D006

AUTHORS: Sitnikov, O.P., Perminov, Yu.A., Gubin, V.A.

TITLE: A Device for Measuring the Errors of Automatic
Control Systems ✓

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroy-
eniye, 1959, Nr 6, pp 23-28 (USSR)

ABSTRACT: Detailed information is given on a device (Figure 1
and 2) for measuring the errors of automatic control
systems. It is a decoupling lowfrequency amplifier
with a relatively wide dynamic range and has a
double triode whose grid receives the voltage from
the integration chains serving as the error signal
input. The signal causes a disbalance of the triode
currents, which is recorded by an indicating instru-
ment. The device measuring the mean square error value
consists of a preamplifier, a detector, a squaring de-

Card 1/2

9(6)

S/146/59/002/ 06/004/016
D002/D006

A Device for Measuring the Errors of Automatic Control Systems

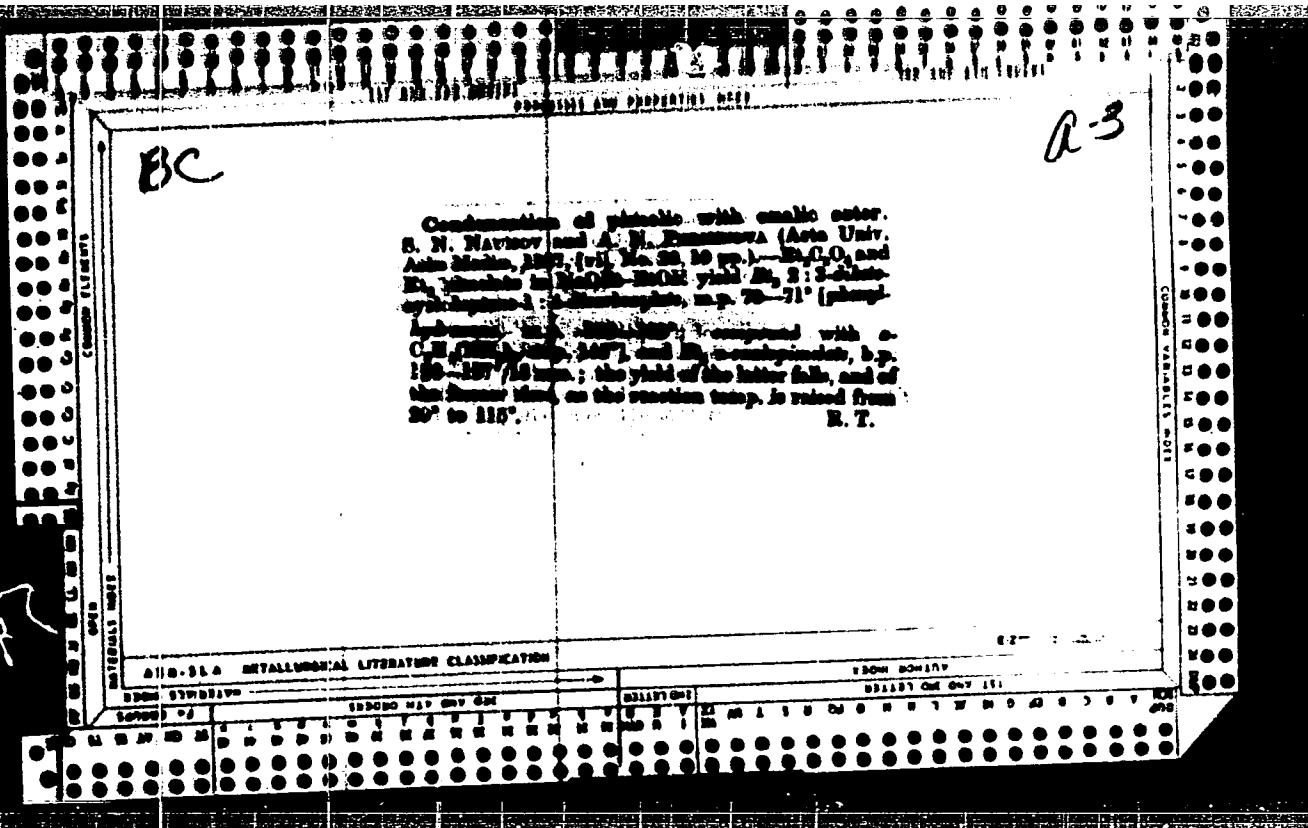
vice, an operation amplifier, and an integrating amplifier. Good results can be obtained with stabilized feed sources of +300 volts, - 300 volts, - 190 volts, and +80 volts. V.S. Pugachev's random functions theory [Ref. 1] was used in selecting the optimal averaging interval. The article was recommended by the Kafedra apparatury avtomaticheskogo upravleniya (Chair of Automatic-Control Devices). There are 2 diagrams, 2 graphs, and 1 Soviet reference.

ASSOCIATION: Ural'skiy politekhnicheskiy institut imeni S. M. Kirova (Ural Polytechnic Institute imeni S.M. Kirov).

SUBMITTED: December 29, 1958

Card 2/2

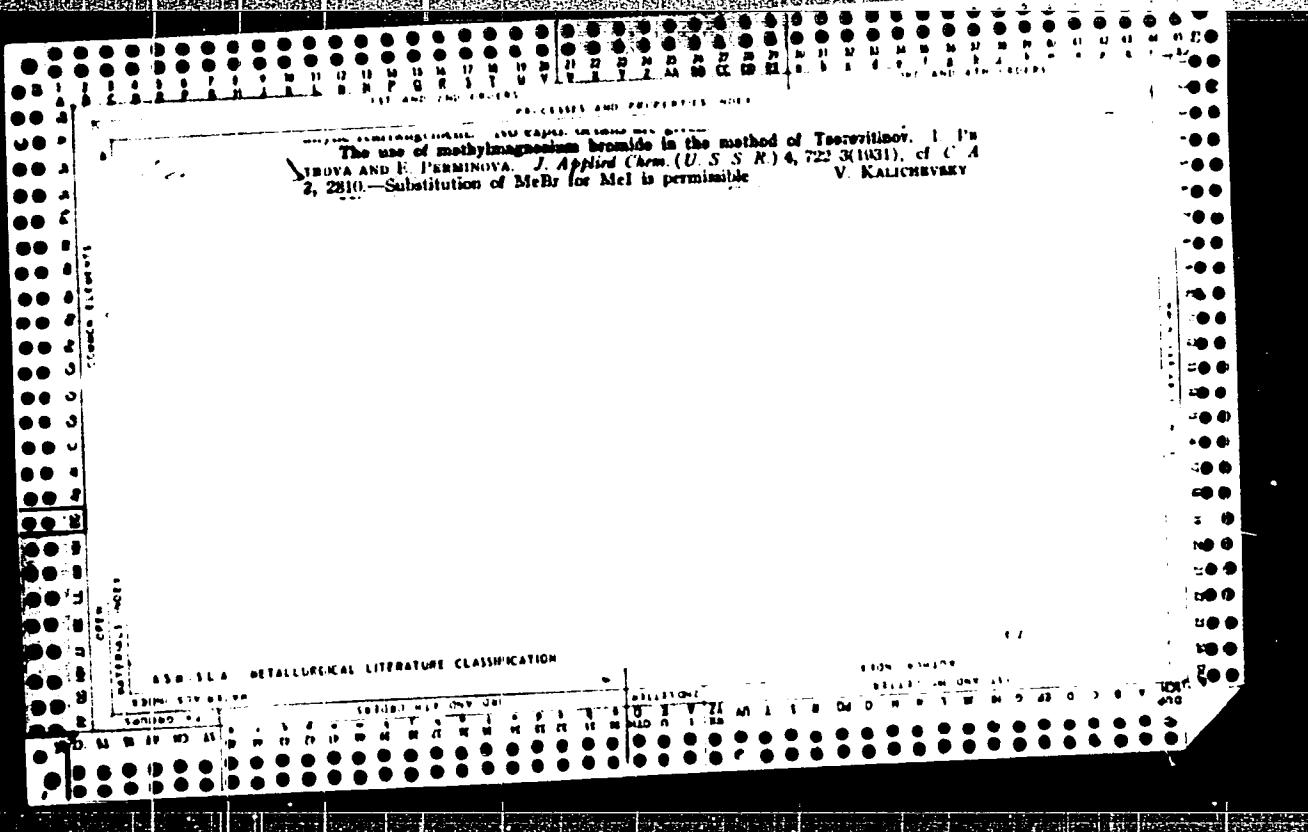
✓



PERMINOVA

SUMAROKOVA, T.N.; PERMINOVA, D.

eutectic fusibility diagrams of binary systems. Report no.2.
Izv. AN Kazakh. S.S.R. Ser. khim. no.1:12-18 '57. (MLRA 10:5)
(Eutectics) (Systems (Chemistry))



"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110010-1

PERMINOVA, L. D.

Kandinskii's pseudohallucination syndrome. Zh. nevropat. psichiat., Moskva
53 no.3:203-208 Mar 1953.
(CIML 25:1)

1. Department of Psychiatry of Arkhangel'sk Medical Institute.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110010-1"

PERMINOVA, I. D.

PERMINOVA, I. D. -- "On the Role of Neurodynamic Disturbances in the Genesis of Auditory Hallucinations." Gor'kiy State Med Inst imeni S. M. Kirov, Gor'kiy, 1956. (Dissertation for the Degree of Candidate in Medical Sciences.)

KNIZHNAYA LETOPIS
No. 41, October 1956

PERMINOVA, I. D.

Automatism

Kadinsky's pseudo-hallucination syndrome. Zhur.nevr. i psikh. 53 no. 3, 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

CHIZHOV, G.B., doktor tekhn. nauk, prof.; PARMINOVA, N.V., inzh.

Effect of freezing on cheese. Trudy LTIKHP 5:78-79 '54. (MIRA 11:3)
(Cheese--Preservation)

Perminova, P.I.

✓ Effect of freezing on cheese. G. B. Chizhov and P. V. Perminova. Trudy Leningrad. Tekhnol. Inst. Kholodil'nogo Prom. 5, 78-D(1954); Referat. Zhur., Khim. 1955, No. 3129. Various kinds of hard cheese were frozen to temps. of -18 to -194°. Freezing to -18° caused no substantial changes in structure. After thawing the original consistency was restored. It is suggested that cheese can be stored in frozen state. M. Hoseh

2

28 (5)
AUTHORS:

Gegechkori, N. M., Perminova, V. M., SOV/32-25-8-28/44
Veselovskaya, I. M., Gusarskiy, V. V., Kozovlev, I. A.,
Dem'yanchuk, A. S., Galishnikova, Z. P., Pedan, G. A., Mamot,
Zh. A., Stukovenkova, K. N., Sukhenko, K. A., Barasheva, T. V.,
Tishin, I. G., Amirkhanov, Sh. Kh.

TITLE: News in Brief

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 981-983 (USSR)

ABSTRACT: 1) The authors determined the impurities of Si, Fe, Al, Mn, Mg, Cu, Ca, Bi, Pb, Sb, and Na in thorium dioxide with a sensitivity of 10^{-2} - $10^{-4}\%$ by burning a briquette from the sample mixed with carbon powder (3:1) in the crater of a carbon electrode type "ryumka". The spectograph ISP-22 was used. The analytical doublets are listed. 2) The author reports on the application of a photoelectric device FES-1 for the rapid analysis of open-hearth furnace slag for silicon dioxide (15-30%), calcium oxide (25-55%) and complete iron (5-15%). There is a description of the operational method. 3) The laboratoriya zavoda (Plant laboratory) applies a spectrum method for the determination of titanium impurities (of an approximately 0.01% concentration) in aluminum

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News in Brief

SOV/32-25-8-28/44

alloys according to a series of standard samples. A spectrograph ISP-22 and an ac arc generator PS-39 were used. 4) The author reports on a method for localized spectrum analysis of steels and welded seams for the determination of phosphorus. The distribution of P was investigated in thin layers (up to 0.02 mm) of metals and welding seams by the use of a DG-1 generator and a quartz spectrograph and the phosphorus contents of microscopic inclusions and thin coatings were investigated. 5) The author determines calcium oxide and ferrous oxide in slags of electric furnaces in which the slag sample (0.2 g) was wetted with a saturated aqueous copper sulfate solution (2 ml) subsequently dried and put in the craters of two arc carbon electrodes. Spectrograph ISP-22 and generator DG-1 were used. 6) The author analyzed magnesite and magnesitic refractory substances by mixing the sample with carbon and barium nitrate (1:2:1) and evaporating it in the crater of a carbon electrode in an ac arc. A spectrograph ISP-22 was used. The use of this method was introduced at the Plant "Magnezit", Kuznetskiy metallurgicheskiy kombinat(Kuznetsk Metallurgical Kombinat) and Zaporozhskiy zavod ogneuporov (Zaporozh'ye Plant of Refractory Materials). 7) The authors apply a spectrum method for the determination of phosphorus

Card 2/4

SOV/32-25-8-28/44

, News in Brief

pentoxide in zirconium dioxide. The determination takes only 2 hours. 20 mg of the sample mixed with carbon (1:1) is put into the carbon electrode and the spectrum lines are measured with a spectrograph ISP-28. 8) The authors, working in the laboratoriya instituta (Institute Laboratory) report the preparation of standard samples from technical Ti for the determination of hydrogen by the spectrum method. The article contains a description of the preparation method and the determination results according to different methods of the hydrogen in standard samples (Table). The difference is maximum relative $\pm 13.5\%$. 9) The author reports on a simple spectrum method for the determination of small quantities of Ba and Mn in calcium chloride water of high mineral contents. He used a spectrograph ISP-22, microphotometer MF-2 and standard samples. There are 1 figure and 1 table.

Card 3/4

News in Brief

SOV/32-25-8-28/44

ASSOCIATION: 1) Laboratoriya nauchno-issledovatel'skogo instituta (Laboratory of the Scientific Research Institute), 2) Zavod "Serp i molot" (Plant "Serp i molot"), 4) Institut elektrosvarki im. Ye. O. Patona Akademii nauk USSR (Electric Welding Institute imeni Ye. O. Patona of the Academy of Sciences of the UkrSSR), 5) Stalingradskiy metallurgicheskiy zavod "Krasnyy Oktyabr'" (Stalingrad Metallurgical Plant "Krasnyy Oktyabr'"), 6) Vsesoyuznyy nauchno-issledovatel'skiy institut ogneuporov, Khar'kov (All-Union Scientific Research Institute of Refractory Materials, Khar'kov), 7) Zhdanovskoye rudoupravleniye, g. Volnovakha (Zhdanov Mining Administration, City Volnovakha), 9) Ufimskiy neftyanoy nauchno-issledovatel'skiy institut (Ufa Petroleum Scientific Research Institute)

Card 4/4

PERMITIN, I. Ye.

Taeniofauna of the Oka River. Trudy Zool. Inst. 32:208-216 '64.
(MIRA 17:11)

SERGEYEV, R.S.; PERMITIN, I.Ye.; YASTREBKOV, A.A.

Fertility of fishes in Rybinsk Reservoir. Trudy Biol.sta."Borok"
no.2:278-300 '55. (MIRA 9:6)
(Rybinsk Reservoir--Fishes)

PERMITIN, N.Ye.

Controlling apple tree chlorosis in Dzheskazgan District.
Trudy Inst. bot. AN Kazakh. SSR 3:225-228 '56. (MLRA 9:10)

(Dzheskazgan District--Apple--Diseases and pests)
(Chlorosis (Plants))

1. FERMINTIN, V.S.
2. USSR (600)
4. Optics, Geometrical - Study and Teaching
7. Method of studying certain problems in geometric optics. Fiz. v shkole 12. no. 6. 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

MADIANOV, Aleksandr Mikhaylovich, kand. tekhn. nauk; CHUDNER,
Rudol'f Vital'yevich; PERMITIN, Vladimir Yevgen'yeyich;
TREKIN, Valeriy Fedorovich

[Solidification and pouring of steel under a liquid medium]
Zatverdevanie i razlivka stali pod zhidkoi sredstv. Moskva,
(MIRA 18:7)
Metallurgija, 1965. 90 p.

1. PERMITIN, Ye.
2. USSR (cso)
4. Sayan Mountains - Description and Travel
7. "We are going through Eastern Sayan." Gr. Fedoseev. Reviewed by n. Permatin. Sib. ognii 31 no. 6 1952.
9. Monthly List of Russian Accessions. Library of Congress. March 1955. Unclassified.

PERMITIN, Ye.N.

ARIHANGEL'SKIY, V.V., redaktor; GERMAN, V.Ye., redaktor; DEBRIN, I.I.,
redaktor; PERMITIN, Ye.N., redaktor; SMIRNOV, N.P., redaktor;
TUROV, S.S., redaktor; DOTSENKO, A.A., tekhnicheskiy redaktor

[In the wilds; an almanac] Okhotnich'i prostory; al'manakh.
Moskva, Gos. izd-vo "Pis'kul'tura i sport." Vol.7. 1957. 332 p.
(Hunting) (MIRA 10:8)

PEROITIN, Ye.N., otv. red.; MIRNOV, N.P., zam. otv. red.; DEBRIN,
I.I., red.; MIRNOV, S.V., red.; UVAROV, V.S., red.;
FORMOZOV, A.N., red.; Kholostov, V.G., red.; SHOLOKHOV,
N.A., red.; LAUMOV, V.V., red.

[Hunting grounds] Okhotnich'i prostory. Moskva, Fizkul'-
tura i sport. Vol.20. 1964. 230 p. (MIRA 17:8)

137-1957-2 23412

Translation from: Referativnyy zhurnal Metallurgiya 1957 Nr 1 p 82 (USSR)

AUTHORS: Madyanov, A. M., Perminin, Ye. S., Miller, M. R., Lyutov, A. I., Vishevnik, V. K., Kaznevskaia, V. A.

TITLE: An Experiment in Casting an Eight-ton Ingot With Small Height-diameter Ratio ($H/D = 0.5$) [Opyt otlivki vos'mitonnogo silitka s malym otnosheniyem vysoty k diametru ($H/D = 0.5$)]

PERIODICAL: V sb. Novoye viteyn. proizv. Nr 2. Gor'k'y. Knigoizdat. 1957. pp 222-232

ABSTRACT: An experimental ingot of the 40-A type was cast. The small ratio $H/D = 0.5$ was dictated by the conditions of forging. In order to achieve horizontal orientation of the crystallization plane, the following steps were taken: the exterior of the mold (M) was covered with heat-insulating slag-wool, the bottom of the M was cooled by air-water jets, and the shrinkage head was heated by an electric arc of a capacity of 1500 A. The pouring of the body of the ingot required 300 seconds, and the pouring of the shrinkage head (12 percent of the weight of the ingot) 210 seconds. The solidification time was 7 hrs. The horizontal orientation of the principal crystallization plane was not achieved. A study of the

Card 1/2

137 1957 12 23412

An Experiment in Casting an Eight-ton Ingot

longitudinal templets showed a lack of axial strength, and a satisfactory macrostructure, with the shrinkage cavity open on top. Liquation beyond the axial zone was observed. In the cross sectional templets the zone of small crystals occupied 20-30 mm, that of acicular crystals, 50-60 mm, the remainder being non-oriented crystals of medium magnitude. On the cross sectional templets taken from the center area and from the area below the砧head, large liquation spot were discovered. The heat insulating layer around the walls of the M proved to be detrimental, since it placed the liquation zones further away from the area of the arc's action. The employment of electrical heating improved the quality of the axial portion of the ingot. Plans for the cooling of the lower section of the ingot and for the design of a mold are presented.

1. Castings-development 2. Castings-test methods 3. G. S.
Test results

Card 2/2

32963

S/146/61/004/006/001/020
D249/D301

6.4311

AUTHORS: Perminov, Yu. A., Malyshov, G. V. and Glyzin, V. I.

TITLE: Low frequency band noise generator

PERIODICAL: Izvestiya vysshikh uchebykh zavedeniy. Priborostroyeniye, v. 4, no. 6, 1961, 3 - 9

TEXT: Design features are discussed of a noise generator for experimental work on computers and automatic control systems. The requirement of this generator is that the output noise voltage should represent a stationary random process following the Gaussian law of distribution and having a uniform spectrum between 0 and 100 c/s. Most of the existing generators utilize the noise from an electron tube, usually the diode. This diode noise voltage is highly amplified to produce sufficient signal at the output terminals. The high degree of amplification required complicates the design and impairs stability. To avoid it, the authors use in the circuit a "noisy" thyratron with a permanent ring magnet and apply the principle of modulation by a non-linear device which in this case is

Card 1/3

32963

Low frequency band ...

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provided by the mixer tubes. To examine the effects of the main circuit design parameters, the authors analyze theoretically the modulating action of the mixer. The treatment used is a standard one by means of the Taylor series representation, leading to the well-known result that modulation can be accomplished by a nonlinear device, whose power series representation contains a second order term. A further consideration, however, of this second order term shows that a practical noise generator can be constructed if the applied signal bandwidth and the repetition frequency of the local oscillator are suitably chosen. In the actual noise generator a band of frequencies Δf is selected from the thyratron spectrum by a band amplifier having a uniform frequency characteristic between 4500 and 5000 c/s. From the band amplifier the noise voltage passes to the inverting stage and then the two voltages in antiphase are applied to the control grids of two mixer tubes. To the screen grids of the mixer tubes is applied the voltage from the multiplier, whose frequency is variable over the range Δf . From the load resistance of the two mixer tubes working in the push-pull connection, the voltage passes to the electronic filter which has

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Low frequency band ...

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a uniform characteristic between 0 and 100 c/s and thence, to the output stage. The r.m.s. value of the output voltage is 25 V. This article was recommended by the Kafedra apperatury avtomaticheskogo upravleniya (Department of Automatic Control Equipment). There are 4 figures and 5 Soviet-bloc references.

ASSOCIATION: Uralskiy politekhnicheskiy institut im. S. I. Vygodskogo (Ural Polytechnic Institute im. S. I. Vygodskogo)

SUBMITTED: February 16, 1961

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(Geophysical Insti-), Prof. L. G. Ryzhikov (Geophysical Insti-), Prof. M. I. P. Dzhaparidze

PERIOD: This work is intended for general and special scientific interests in the

research activities of the class-leaders and their subordinates in the Antarctic. It

is of particular interest to marine biologists, meteorologists, and

geophysicists.

CONTENTS: Main items of the information collected on the Soviet Antarctic

expedition reports on the fauna found in various regions of the Southern

Oceans, the hydrology and hydrochemistry of Antarctic and Antarctic

seas, the geography of the Antarctic Peninsula, the fauna in Antarctic

seas, the flora of the Antarctic Peninsula, the fauna in Antarctic

seas, the fauna of the Southern Ocean, the fauna in the Southern Ocean

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